

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/051491

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12P19/04 C08B11/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12P C08B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 281 073 A (COURTAULDS PLC) 22 February 1995 (1995-02-22) cited in the application	9
Y	abstract; examples 3,4	1,2,6-9
X	EP 0 382 577 A (ALKO LTD) 16 August 1990 (1990-08-16) cited in the application	9
Y	abstract; example 2c; table 2	1,2,6-9
X	EP 0 465 992 A (AQUALON CO) 15 January 1992 (1992-01-15) cited in the application	9
A	abstract; example 1	1-8
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

22 November 2004

Date of mailing of the international search report

09/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Fausti, S

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/051491

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>DATABASE WPI Section Ch, Week 198846 Derwent Publications Ltd., London, GB; Class A11, AN 1988-327895 XP002306858 & JP 63 243181 A (PENTEL KK) 11 October 1988 (1988-10-11) abstract</p>	1,2,6-9
A	<p>EP 0 708 113 A (HOECHST AG) 24 April 1996 (1996-04-24) cited in the application paragraph joining pages 2 and 3; page 3, third paragraph; examples 1-6</p>	1-9
A	<p>TJERNELD F ET AL: "ENZYMATIC CELLULOSE HYDROLYSIS IN ATTRITION BIOREACTOR COMBINED WITH AN AQUEOUS TWO-PHASE SYSTEM" BIOTECHNOLOGY AND BIOENGINEERING. INCLUDING: SYMPOSIUM BIOTECHNOLOGY IN ENERGY PRODUCTION AND CONSERVATION, JOHN WILEY & SONS. NEW YORK, US, vol. 37, no. 9, 15 April 1991 (1991-04-15), pages 876-882, XP000179051 ISSN: 0006-3592 abstract</p>	
A	<p>DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1981, KLESOV A A ET AL: "STABILITY OF SOLUBLE AND IMMOBILIZED CELLULASES IN WATER ALCOHOL SYSTEMS" XP002306857 Database accession no. PREV198273053322 abstract & PRIKLADNAYA BIOKHIMIYA I MIKROBIOLOGIYA, vol. 17, no. 2, 1981, pages 216-224, ISSN: 0555-1099</p>	

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/051491

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 2281073	A	22-02-1995	NONE
EP 0382577	A	16-08-1990	AT 138388 T 15-06-1996
		AT 127664 T 15-09-1995	
		AU 631842 B2 10-12-1992	
		AU 4933390 A 16-08-1990	
		AU 4933490 A 16-08-1990	
		AU 620207 B2 13-02-1992	
		AU 4933590 A 16-08-1990	
		CA 2009675 A1 10-08-1990	
		CA 2009676 A1 10-08-1990	
		CA 2009677 A1 10-08-1990	
		DE 69022260 D1 19-10-1995	
		DE 69022260 T2 14-03-1996	
		DE 69027054 D1 27-06-1996	
		DE 69027054 T2 31-10-1996	
		DE 382576 T1 13-06-1991	
		DE 382577 T1 13-06-1991	
		DE 382578 T1 13-06-1991	
		DK 382577 T3 17-06-1996	
		DK 382578 T3 09-10-1995	
		EP 0382576 A1 16-08-1990	
		EP 0382577 A1 16-08-1990	
		EP 0382578 A2 16-08-1990	
		ES 2022084 T3 16-10-1996	
		ES 2022087 T3 16-02-1996	
		FI 103583 B1 30-07-1999	
		GR 91300043 T1 15-11-1991	
		GR 91300045 T1 15-11-1991	
		GR 91300047 T1 15-11-1991	
		GR 3018003 T3 29-02-1996	
		GR 3020441 T3 31-10-1996	
		JP 2245001 A 28-09-1990	
		JP 3071442 B2 31-07-2000	
		JP 2245002 A 28-09-1990	
		JP 2915044 B2 05-07-1999	
		JP 3022961 A 31-01-1991	
		NZ 232432 A 25-09-1991	
		NZ 232433 A 21-12-1990	
		NZ 232434 A 25-09-1991	
		US 5525368 A 11-06-1996	
		US 5569483 A 29-10-1996	
		US 5543162 A 06-08-1996	
		US 5366755 A 22-11-1994	
		US 5354424 A 11-10-1994	
EP 0465992	A	15-01-1992	AT 167488 T 15-07-1998
		AU 650273 B2 16-06-1994	
		AU 8023191 A 16-01-1992	
		CA 2046089 A1 03-01-1992	
		DE 69129608 D1 23-07-1998	
		DE 69129608 T2 15-10-1998	
		EP 0465992 A1 15-01-1992	
		JP 2108432 C 06-11-1996	
		JP 4306245 A 29-10-1992	
		JP 8009680 B 31-01-1996	
		US 6054511 A 25-04-2000	
		US 5480984 A 02-01-1996	

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/051491

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 63243181	A	11-10-1988	NONE	
EP 0708113	A	24-04-1996	DE 4434280 A1	28-03-1996
			CA 2159045 A1	27-03-1996
			DE 59505079 D1	25-03-1999
			EP 0708113 A1	24-04-1996
			JP 8176201 A	09-07-1996
			US 5719274 A	17-02-1998
			US 5928709 A	27-07-1999